Table of Contents

Issue 1 (February 1987) = Pages 1–70
Issue 2 (April 1987) = Pages 71–134
Issue 3 (June 1987) = Pages 135–198
Issue 4 (August 1987) = Pages 199–266
Issue 5 (October 1987) = Pages 267–328
Issue 6 (December 1987) = Pages 329–390
Special Issue I (February 1987) = Pages 1–110
Special Issue II (November 1987) = Pages 111–164

Editor's Note 1

Satter, P., E. Krause, and *M. Skupin,* Frankfurt/M., FRG: Mortality Trends in Cases of Elective and Emergency Aorto-Coronary Bypass after Percutaneous Transluminal Coronary Angioplasty 2

Schrenk, P., G. S. Kobinia, P. Brücke, G. Syre, and *A. Edtstadler,* Linz, Austria: Fibrin Glue Coating of e-PTFE Prostheses Enhances Seeding of Human Endothelial Cells 6

Vetter, H. O., S. M. Factor, and *R. W. Frater,* New York, USA: The Use of Glycerol-treated Homologous Pericardium as a Substitute for Cusps and Chordae Tendineae of the Mitral Valve in Sheep 11

Schulter, H. D., D. Horstkotte, N. Evagelopoulos, W. Bircks, and *F. Loogen,* Düsseldorf, FRG: Reoperations for Malfunction of Heart Valve Prostheses, especially with Endocarditis 16

Milgalter, E., G. Uretzky, P. Levy, A. Appelbaum, and *J. B. Bormann,* Jerusalem, Israel: Pseudoaneurysm of the Left Ventricle 20

Gebhard, M. M., E. Gersing, C. J. Brockhoff, Ph. A. Schnabel, and *H. J. Bretschneider,* Göttingen, FRG: Impedance Spectroscopy: a Method for Surveillance of Ischemia Tolerance of the Heart 26

Holper, K., H. Federkiel, D. Hölzel, and *F. Sebening,* Munich, FRG: Estimation of the Operative Risk of Mitral Valve Replacement by Multivariate Logistic Regression Analysis 33

Solem, J. O., Lilian Tengborn, S. Steen, and *C. Lührs,* Lund, Sweden: Cell Saver Versus Hemofilter for Concentration of Oxygenator Blood after Cardiopulmonary Bypass .42

Heinemeyer, D., G. Belles, and *K. Stapenhorst,* Homburg/Saar, FRG: Intracellular pH Measurement during Cardiac Arrest in Ventricular Myocardium by Bretschneider's Cardioplegic Solution HTK and St. Thomas Hospital Solution with and without Procaine 48

Böck, J., A. Hoeft, H. Korb, R. de Vivie, and *G. Hellige,* Göttingen, FRG: Determination of Central Blood Volume and Extravascular Lung Water 53

Andersen, P. T., L. K. Nielsen, J. Møller-Petersen, E. W. Henneberg, and *K. Egeblad,* Aalborg, Denmark: Myoglobin and Creatine Phosphokinase in Serum during and after Aortic Bypass Grafting. 57

Korn, S., A.-M. Feller, C. Huth, and *H.-E. Hoffmeister,* Tübingen, FRG: Bilateral Obstruction of the Ureters as a Complication of Iliac Aneurysms. 61

Isringhaus, H., M. Naber, and *B. Kopper,* Homburg/Saar, FRG: Successful Treatment of Tumor Embolism of a Hypernephroma with Complete Occlusion of the Left Pulmonary Artery 65

Ostermeyer, J., D. Horstkotte, J. Bennett, H. Huysmans, D. Lindblom, C. Olin, E. Orinius, and *G. Semb,* Düsseldorf, FRG: The Björk-Shiley 70 Convexo-Concave Prosthesis Strut Facture Problem (Present State of Information) 71

Verkkala, K., V. Valtonen, A. Järvinen, and *E.-M. Tolppanen,* Helsinki, Finland: Fever, Leukocytosis and C-reactive Protein after Open-Heart Surgery and Their Value in the Diagnosis of Postoperative Infections. 78

Laczkovics, A., M. Havel, H. Teufelsbauer, R. Horvath, W. Schreiner, and *E. Wolner,* Vienna, Austria: Cyclosporin-A Induced Heart Failure after Orthotopic Heart Transplantation 83

Sergeant, P., W. Flameng, E. Lesaffre, and *R. Suy,* Leuven, Belgium: The Value of Ejection Fraction as a Predictor of Early and Late Survival Following Aortocoronary Bypass Surgery in Patients with Moderate to Severe Depression of the Left Ventricular Function 87

Jakob, H., D. Maass, L. Brandt, S. Schuster, J. Meyer, and *H. Oelert,* Mainz, FRG: Successful Post-Bypass Ventricular Assistance with a Centrifugal Pump. 91

Nilsson, F. N., E. E. Berglin W-O, R. Ekroth, G. Holm, I. Milocco, O. D. Mjøs, A. Waldenström, and *G. E. W. William-Olsson,* Göteborg, Sweden: Effects of Graded Insulin Infusions on Plasma Levels of Free Fatty Acids, Adrenaline and Noradrenaline Directly After Open Heart Surgery. 96

Alt, E., R. Völker, and *H. Blömer,* Munich, FRG: Lead Fracture in Pacemaker Patients 101

Palvio, D. H. B., S. M. Paulsen, and *E. W. Henneberg,* Aalborg, Denmark: Primary Angiosarcoma of the Lung Presenting as Intractable Hemoptysis. 105

Sellevold, O. F. M., and *P. Jynge,* Trondheim, Norway: Protection of the Ischemic Myocardium: Dose-Response Relationships with Glucocorticoids in Filtered Cardioplegic Solutions 108

Milgalter, E., H. Lotan, L. Schuger, Y. Ben-Horin, G. Uretzky, A. Appelbaum, and *J. B. Borman,* Jerusalem, Israel: Cardiac Myxomas – Surgical Experience with a Multifaceted Tumor 115

Erhard, J., N. Rohm, und *J. Machado,* Essen, FRG: Thoraxwandrekonstruktion 119

Bogers, A. J. J. C., J. M. Quaegebeur, J. Ottenkamp, and *H. A. Huysmans,* Leiden, The Netherlands: Treatment of Ventricular Arrhythmia after Corrective Cardiac Surgery in a Neonate with Intravenous Amiodarone. 124

Beaurang, J., J. Lamote, B. Rosseel, B. Cham, and *W. Welch,* Brussels, Belgium: Repair of Pericardial Rupture Solely by Abdominal Transphrenic Approach 126

Bessou, J. P., G. Rioult, M. Redonnet, A. Cribier, and *R. Soyer,* Rouen, France: A Case of Spontaneous Incomplete Non-Traumatic Rupture of the Ascending Aorta with Acute Aortic Insufficiency 127

McGovern, E., B. W. Otridge, and *M. C. Neligan,* Dublin, Ireland: Mitral Valve Replacement in a Patient with Sickle Cell Anaemia 129

Hehrlein, F. W.: Laudatio: Karl Vossschulte 135

Hermanek, P., O. Scheibe, B. Spiessl, and *G. Wagner:* TNM Classification of Malignant Tumours: New Edition 1987 136

Thelin, S., J. Hultman, G. Ronquist, C. Juhlin, H. E. Hansson, and *P. G. Lindgren,* Uppsala, Sweden: Improved Myocardial Protection by Creatine Phosphate in Cardioplegic Solution. An In Vivo Study in the Pig During Normothermic Ischemia 137

Schulte, H. D., W. Bircks, A. Krian, and *B. Matejic,* Düsseldorf, FRG: Coronary and Valvular Surgery in Elderly Patients (> 70 Years) 143

Schnabel, Ph. A., M. M. Gebhard, Th. Pomykaj, A. Schmiedl, C. J. Preuße, J. Richter, and *H. J. Bretschneider,* Göttingen, FRG: Myocardial Protection: Left Ventricular Ultrastructure after Different Forms of Cardiac Arrest 148

Stegmann, Th., R. Garcia-Gallont, and *W. Döring,* Fulda, FRG: Intravascular Leiomyomatosis: Report of a Case and Review of the Literature 157

Boldt, J., D. Kling, B. v. Bormann, H. H. Scheld, and *G. Hempelmann,* Gießen, FRG: Extravascular Lung Water and Hemofiltration during Complicated Cardiac Surgery...161

Yagyu, K., H. Matsumoto, and *K. Asano,* Tokyo, Japan: Importance of the Mitral Complex in Left Ventricular Contraction – an Analysis of the Results of Mitral Valve Replacement with Preservation of the Posterior Mitral Complex 166

Zhou Jun-an, Fang Wei-yi, Wang Cheng, Zhou Jian-lie, and *Guan Han-ping,* Wuhan, Hubei, China: The Effects of Dauricine and Verapamil as Calcium Channel Blockers on the Plasma Concentration of 6-Keto-Prostaglandin F_{1a} and Thromboxane B_2 during Cardiopulmonary Bypass 172

Cornish, E. M., D. G. Human, M. M. A. de Moor, J. Hassoulas, H. E. Sanchez, K. J. Sprenger, and *B. A. Reichart,* Cape Town, South Africa: Valve Replacement in Children 176

Larsson, S. and *S. Svensson,* Gothenburg, Sweden: Management of Postinfarction Ventricular Septal Rupture..180

Shirakusa, T., T. Kusano, R. Motonaga, and *T. Eimoto,* Fukuoka-ken, Japan: Plasma Cell Granuloma of the Lung–Resection and Steroid Therapy 185

Jones, M., and *V. J. Ferrans,* Bethesda, USA: Letter to the Editor.....189

Korn, S., J. Seilnacht, C. Huth, und *A.-M. Feller,* Tübingen, FRG: Kardiovaskuläre Manifestationen des Pseudoxanthoma Elasticum (Grönblad-Strandberg-Syndrom) 191

Geroulanos, S., S. Oxelbark, B. Donfried, F. Recker, and *M. Turina,* Zurich, Switzerland: Antimicrobial Prophylaxis in Cardiovascular Surgery 199

Adam, D.: Invited Comment 204

Ken-ichi, Asano, and *Akira Furuse,* Tokyo, Japan: Techniques of Modified Mitral Valve Replacement with Preservation of the Posterior Leaflet and Chordae Tendineae 206

Cortina, J. M., J. Martinell, V. Artiz, J. Fraile, S. Serrano, and *G. Rabago,* Madrid, Spain: Surgical Treatment of Active Prosthetic Valve Endocarditis. Results in 66 Patients 209

Freixinet, J. L., J. M. Segur, C. A. Mestres, M. Mateu, J. M. Gimferrer, M. Catalán, M. A. Callejas, E. Letang, and *J. Sánchez-Lloret,* Barcelona, Spain: Traumatic Injuries of the Diaphragm. Experience in 33 Cases 215

Günnicker, M., and *W. Hess,* Essen, FRG: Preliminary Results with Amrione in Perioperative Low Cardiac Output Syndrome.....219

Juettner, F. M., H. Popper, K. Sommersgutter, J. Smolle, and *G. B. Friehs,* Graz, Austria: Malignant Fibrous Histiocytoma of the Lung: Prognosis and Therapy of a Rare Disease.....226

Nashef, S. A. M., and *W. H. Bain,* Glasgow, Scotland: Valve-related Events: A System of Definitions 232

Ohteki, H., T. Itoh, Y. Watanabe, T. Ueno, N. Minato, and *M. Natsuaki,* Saga City, Japan: A Dissecting Aneurysm Involving a Right-Sided Arch, Right Descending Aorta and Mitral Regurgitation.....235

Grevy, Ch., H. J. Andersen, Lena G. Hansen, and *A. V. Bloch,* Aalborg, Denmark: Catamenial Pneumothorax 238

Nashef, S. A. M., N. G. Talwalkar, and *M. P. G. Jamieson,* Glasgow, Scotland: Aortic Arch Rupture in a Child Following Minor Blunt Trauma 240

Bunzel, B., und *F. Eckersberger,* Wien, Austria: Veränderung der Lebensqualität nach aortokoronarem Bypass und Klappenersatz: Ein Gradmesser des subjektiven Operationserfolges.....242

Baum, H., A. Kuehnert, R. Sundermeyer, and *G. Bonse,* Dieztenbach, FRG: Möglichkeiten der Kernspintomographie in der Herzdiagnostik 248

Schmid, C., J. Nitsch, H. D. Funke, und *P. G. Kirchhoff,* Bonn, FRG: Potentialverteilung bei intra- und extrakardialer Defibrillation.....255

Rodewald, G. and *P. Kalmar,* Hamburg, FRG: Cardiac Surgery in the Federal Republic of Germany during 1986 ...259

Stapenhorst, K., Editorial: Thoracic and Cardiovascular Surgery – A Rational and Essential Unity for Scientific and Practical Clinical Progress.....267

Hannekum, A., H. Dalichau, M. Kochs, H. Müller, M. Höher, and *H. Hirche,* Göttingen, FRG: Sequential or Single Pulse Defibrillation? Investigations towards Energy Reduction in Experimental Animals 270

Trubel, W., U. Losert, H. Schima, A. Rokitansky, Ch. K. Spiss, F. Coraim, A. Laczkovics, and *E. Wolner,* Vienna, Austria: Total Artificial Heart Bridging: A Temporary Support for Deteriorating Heart Transplantation-Candidates – Methods and Results 277

Späth, G., A. Brinkmann, Ch. Huth, and *H. Wiethölter,* Tübingen, FRG: Complications and Efficacy of Transsternal Thymectomy in Myasthenia Gravis 283

Alp, M., K. Ucanok, R. Dogan, G. Cetin, M. Ünlü, F. Yorulmaz, and *B. Moldibi,* Ankara, Turkey: Surgical Treatment of Bronchial Adenomas: Results of 29 Cases and Review of the Literature 290

Lund, O., and *M. Vaeth,* Aarhus, Denmark: Prediction of Late Results Following Valve Replacement in Aortic Valve Stenosis. Seventeen Years of Follow-Up Examined with the Cox Regression analysis 295

Koning, H. M., and *A. Leusink,* Beverwijk, Netherlands: The Effect of Hemodynamic Factors on Cardiac Performance Following Open Heart Surgery 304

Sellevold, O. F., and *P. Jynge,* Trondheim, Norway: Steroids and Cardioplegia: Effects of Glucocorticoids upon vascular resistance during cardioplegic perfusion. 307

Minale, C., G. Hollweg, S. Nikol, Ch. Mittermayer, and *B. J. Messmer,* Aachen, FRG: Closure of the Pericardium Using Expanded Polytetrafluoroethylene Gore-Tex®-Surgical Membrane: Clinical Experience 312

Yutaka Okita, Shigehito Miki, Kenji Kusuhara, Yuichi Ueda, Takafumi Tahata, Masashi Komeda, Kazuo Yamanaka, Katsuhisa Ishi, and *Keishirou Kawamura,* Tenri, Nara, Japan: A Giant Aneurysm of the Non-Coronary Sinus of Valsalva 316

Scalia, D., A. Giacomin, U. Da Col, and *C. Valfre,* Padova, Italy: Case Report: Successful Treatment of a Patient after Sudden Loss of the Disc in a Björk-Shiley Concexo-Concave Mitral Prothesis 318

Arnold, D., W. Kachel, W. Rettwitz, P. Lasch und *W. Brands,* Mannheim, FRG: Klinische Anwendung extrakorporaler Membran-Oxygenierung (ECMO) beim Neugeborenen mit respiratorischer Insuffizeinz 321

Tebbe, U., Göttingen, FRG: The Therapy of Acute Myocardial Infarction: Current State of the Art 329

Vollmar, J. F., H. Loeprecht and *S. Hutschenreiter,* Ulm, FRG: Advances in Vascular Endoscopy 334

Andersen, P. T., K. S. Christensen, E. W. Henneberg and *K. Egeblad,* Aalborg, Denmark: Lower Limb Transcutaneous Oxygen Tension during Aortic Bypass Grafting . .342

Leitz, K. H., H. Oster and *J. Keutel,* Bremen, FRG: Use of the Left Internal Thoracic Artery to Correcta Left Main Coronary Atresia 345

Isringhaus, H.: Homburg, FRG: Intraoperative use of High-frequency Echocardiography for Imaging the Coronary Arteries 348

Segesser, L. v., F. Simonet, B. Meier, L. Finci and *B. Faidutti,* Geneva, Switzerland: Inadequate Flow After Internal Mammary-Coronary Artery Anastomoses 352

Würsten, H. U. and *P. Vock,* Bern, Switzerland: Mediastinal Infiltration of Lung Carcinoma (T4N0-1): the Positive Predictive Value of Computed Tomography. . . .355

Shirakusa, T. Fukuoka, Japan: Ultrastructural Study on Acute Rejection of Canine Allograft Using Cyclosporin A. . .361

Stamatis, G., Essen, FRG: Report about Thoracic Research Scholarship at Toronto with a contribution to the Current Status of Single Lung Transplantation in this Institution and Review of the Literature 366

Suter, P. M., V. Velebit and *P. Neidhart,* Geneva, Switzerland: Mediastinal Drainage after Open Heart Surgery: Comparison of Infectious Complications with Two Different Systems 372

Kyösola, K., O. Takkunen, T. Maamies, J. Sipponen and *T. Viljanen,* Helsinki, Finland: Bronchospasm during Cardiopulmonary Bypass – A Potentially Fatal Complication of Open-heart Surgery 375

Šebesta, P., J. Pirk and *H. Filipova †,* Prague, Czechoslovakia: Superior Mesenteric Artery Syndrome following Abdominal Aortic Aneurysm Resection and Replacement . .378

Cooper, G., A. J. Ritchie and *J. R. P. Gibbons,* Belfast, Northern Ireland: Use of a Mousseau-Barbin Tube in the Management of a Tuberculous Tracheo-Oesophageal Fistula 382

Pilichowski, P., Ph. Gaudin, P.-Y. Brichon, L. Neron, J.-E. Wolf, J. Machecourt and *R. Latreille,* Grenoble, France: Fracture and Embolization of a Lillehei-Kaster Mitral Valve Prosthesis Disc: One Case Successfully Operated 385

Book Reviews

Ulmer, T., G. Reichel, D. Nolte, M. S. Islam: Die Lungenfunktion (Toomes) 195

Rautenburg, H. W.: Herzfehler im Kindes- und Jugendalter (Rigler) 195

Köstering, H., H. Kreuzer, K. L. Neuhaus (Hrsg.): Thrombolytische Therapie des akuten Myokardinfarktes (Volkmer) 262

Zsabo, Z. (Ed.): Current Problems of Cardiovascular Surgery (Rigler) 327

Vogel, H.: Postoperative Röntgenmorphologie (Isringhaus) 388

Special Issue I/87

Kayer, K., H. Bülzebruck, and *I. Vogt-Moykopf:* New Morphological Aspects in TNM-Classification of Bronchus Carcinoma 53

Greschuchna, D.: Prätherapeutisches Staging 53

Dienemann, H., L. Sunder-Plassmann, and *C. Voigt:* Lymph Nodes in Bronchogenic Carcinoma: Relation Between Diameter and Infiltration Rate 53

Wahlers, B., P. Mikowsky, and *R. Achatzy:* Value of Computed Tomography for preoperative Staging of Bronchus Carcinoma with the TNM-Classification 53

Gatzemeier, U.: Importance of the TNM-Classification for the Staging of Lung Cancer – Lymph Nodes (N) 54

Bieselt, R., and *H. Wolff:* Indication of Operation, Operation Risk and Long Time Results in Surgical Therapy of Lung Cancer Dependent on TNM-Classification 54

Vogt-Moykopf, I., and *G. Probst:* Technique of Mediastinal Lymph Node Dissection in the Surgical Treatment of Bronchial Carcinoma 55

Sunder-Plassmann, L., H. Dienemann, and *G. Heberer:* 5 Year Survival of Bronchial Carcinoma: Relevance of the Reviewed UICC Staging System.....55

Stamatis, G., D. Greschuchna, and *W. Maaßen:* Surgery by Stage III Non-Small Cell Lung Cancer 55

Walter, M., W. Holzmüller, U. Brenner, H. W. Keller, and *J. M. Müller:* Is a Surgical Therapy in Advanced Bronchial Carcinoma Effectful? 56

Yagi, K., S. Ikeda, S. Kosaba, Y. Matsubara, R. Hatakenaka, and *G. Martini:* The Surgical Results of T 3 Bronchial Carcinoma 56

Schaberg, T., D. Kaiser, J. Becker, J. Bender, and *E. Allica:* Interstitial Brachytherapy in the Treatment of Bronchiogenic Carcinoma with Special Regard to T3 N0/N1/M0 – Methodology and Early Results.....56

Kulka, F., and *I. Forrai:* Why do we still Operate Upon Small Cell Carcinoma? 57

Fissler-Eckhoff, A., R. Achatzy, W. P. Kunze, and *K.-M. Müller:* Stroma Proportions in Lung Tumours of Different Histological Tumour Types – Morphometric Structures Analysis 57

Lawerenz, J. U., R. Pülo-Lawerenz, H. Toomes, and *K.-M. Müller:* Tumorregression in Small Cell Bronchogenic Carcinoma Following Chemotherapy: Pathologic-Anatomic Findings 58

Brightman, Ilse, W. Beba, J. Friemann, and *R. Achatzy:* Localized Mesotheliomas 58

Kulka, F., and *Sz. Kosztic:* Reoperation for Recurrent Bronchogenic Carcinoma 58

Rahbek, Sørensen, H., and *L. Olsson:* The Utility of a Squamous Cell Lung Cancer Associated Tumour Marker in Surgery.....59

Achatzy, R., R. Ritscher, and *J. P. Sturmberg:* Bronchial Carcinoid, a Malignant Tumour: Surgical Treatment.....59

Menger, M. D., and *H. Isringhaus:* Pneumonectomy in Lung Cancer: Treatment of Postoperative Surgical Complications 59

Swoboda, L., and *H. Toomes:* Median Sternotomy as an Access Route in General Thoracic Surgery 60

Krumhaar, D., J. Mollinedo, and *M. E. Veerhoff:* Primary Thoracotomy for Treatment of Spontaneous Pneumothorax 60

Müller, H., H. H. Scheld, R. Moosdorf, H. Fitz, U. Börner, and *F. W. Hehrlein:* Performance of Tracheal Repair with Fibrin Glue.....61

Morgan, J. A.: The Surgical Treatment of Acquired Cystic Lung Disease in Premature Neonates 61

Moosdorf, R., H. H. Scheld, W. A. Stertmann, and *F. W. Hehrlein:* Coronary Endoscopy – A new Intraoperative Method to Control Endarterectomies of the Right Coronary Artery.....62

Dittrich, H., E. Hohenberger, U. S. Müller, and *F. Bender:* Intraoperative (Transluminal) Coronary Angioplasty Combined with Coronary Surgery 62

Iversen, S., M. Dahm, C. Diefenbach, M. Helfen, U. Hake, B. Messmer, and *H. Oelert:* Surgery for Coronary Obstruction Caused by Myocardial Bridging 62

Krebber, H.-J., D. G. Mathey, W. Bleifeld, and *G. Rodewald:* Improved Survival Rate up to Four Years After Successful Thrombolysis and Early Bypass Surgery 63

Birnbaum, D., P. Betz, and *B. Nitsch:* Coronary Surgery in Female 63

Jehle, J., K. Böcker, A. Krian, A. Reingräber, and *F. Loogen:* Clinical and Hemodynamic Results of Coronary and Revascularization of the Occluded Left Anterior descending Artery.....64

Lund, O., and *M. Vaeth:* Independent Patient-Related Predictors of Long-Term Results Following Valve Replacement in Aortic Valve Stenosis 64

Skupin, M., H. Klepzig, H. Elsaesser, M. Kaltenbach, and *P. Satter:* Longterm Results of Prosthetic Valve Replacement for Aortic Regurgitation and the Prognostic Significance of the End-Diastolic and Regurgitated Blood Volumes.....65

Frank, G., H. Klein, D. Baumgart, D. Lowes, and *H. G. Borst:* Epicardial Dissection of Kent Bundles in WPW-Syndrome.....65

Tschirkov, A., B. Mischev, G. Natschev, A. Todorov, St. Kusmanova, and *D. Michailov:* Combined Operative Treatment of Heart Valve and Concomitant Common Surgical Diseases.....65

Vosloo, S., and *B. Reichart:* The Feasibility of Closed Mitral Valvotomy in Pregnancy.....66

Brilla, C., K. R. Karsch, H. Seboldt, H.-E. Hoffmeister, and *L. Seipel:* Effect of Tricuspid Annuloplasty on the Clinical Outcome and Right Ventricular Function after Mitral of Aortic Valve Surgery.....66

Dahm, M., S. Iversen, M. Drexler, R. Erbel, and *H. Oelert:* Intraoperative Evaluation of Reconstruction of the Atrioventricular Valves by Transesophageal Echocardiography 67

Mohr-Kahaly, S., R. Erbel, M. Drexler, N. Wittlich, H. Oelert, and *J. Meyer:* Detection of Prosthetic Valve Dysfunction – Comparison of the Diagnostic Value of Transesophageal and Transthoracic Echocardiography 67

Vahl, C. F., J. Kugelmeier, C. Carl and *E. Struck:* Computer-Assisted Prospective Analysis of Neuro-

psychiatric Complications after Extracorporal Circulation on 1000 Patients 67

Abu-Aishah, N., D. Hanania, F. Hourani, and *H. Musleh:* Results and Indications of Surgical Management in 6 Patients with 10 Thoracic, Abdominal and Peripheral Aneurysms in Relation to Adamandiadis Behçet Syndrom . . .68

Doerr, W.: Pathology of Thoracic Aortic Aneurysms 68

Harder, Th.: Radiological Diagnosis of Aneurysms of the Thoracic Aorta 69

Laas, J., G. Schlüter, A. Haverich, W. Daniel, Ph. Hendrickx, and *H. G. Borst:* Preoperative Diagnostics in Acute Dissection Type A 69

Erbel, R., S. Mohr-Kahaly, J. Brunier, H. Rennollet, N. Wittlich, N. Drexler, S. Iversen, H. Oelert, N. Thelen, and *J. Meyer:* Value of Transthoracic and Transesophageal Echocardiography in the Preoperative Diagnosis of Aortic Dissection. 69

Debakey, M. E.: Surgical Considerations on Dissecting Thoracic Aneurysms: Experience in Thirty or more Years. . . .70

Borst, H. G., J. Laas, A. Haverich, and *G. Frank:* A Simplified Approach to Surgery of Acute Aortic Dissection Type A. 70

Claußnitzer, R., Ch. Huth, and *H.-E. Hoffmeister:* Is the Aortic Graft Valve Prosthesis an Improvement in the Treatment of Aneurysms of the Ascending Aorta? 71

Grabitz, K., H. Kniemeyer, R. van Poppelen, and *W. Sandmann:* Investigations to Reduce Paraplegia during Thoraco-Abdominal Reconstructions. 71

Wittenstein, G. J.: Complications of Aortic Aneurysm Surgery: Prevention and Treatment 71

Bretschneider, H. J.: Myokardprotektion – Irrwege und Ausblicke 71

Giessler, R.: Früh- und Spätkomplikationen nach gefäßchirurgischen Eingriffen 72

Elliot, J. P.: Healing Complications of Prosthesis, Anastomosis – Aneurysm – after Vascular Surgery 72

Brunner, U.: Lymphologische Aspekte der Früh- und Spätkomplikationen nach gefäßchirurgischen Eingriffen 72

De Smit, P.: Aorto-intestinale Fisteln 72

Maass, D., H. Oelert, H. Jakob, W. Schmiedt, and *A. Senning:* Central Vein Compression and Stenosis: Treatment by Transluminal Implantation of Spiral-Endoprostheses 72

Rosin, H., and *W. Sandmann:* Perioperative Antibiotika – Prophylaxe aus mikrobiologischer und chirurgischer Sicht . . .72

Biersack, H. J.: Contribution of Nuclear Medicine to the Diagnosis of Bleeding, Infection, and Thrombosis in Cardiovascular Surgery. 72

Redel, D. A., C. F. Wippermann, T. P. Le, and *P. G. Kirchhoff:* Non-invasive Preoperative Diagnosis of Congenital Heart Disease with the Use of Echocardiography 73

Lindenau, K.-F., D. Olthoff, and *K. Bock:* Accessory Valve Cusp as a Cause of Outflow Tract Obstruction in Atrioventricular and Ventriculo-Arterial Discordance 73

Meisner, H., and *F. Sebening:* Surgical Repair of Truncus Arteriosus with Interrupted Aortic Arch 74

Krian, A., J. Quaegebeur, S. Rammos, H. H. Kramer, J. Ostermeyer, and *W. Birks:* Surgical Treatment of D-Transposition of the Great Arteries: Successful Conversion of a Functional into an Anatomic Correction 74

Thies, W. R., K. Minami, U. Pott, W. Matthies, H. Meyer, and *R. Körfer:* Successful Surgery of a Complex Cardiac Malformation: D-TGA, TAPVC of Infracardiac Type and Cor Triatriatum Sinistrum 74

Gams, E., R. Lins, H. Meisner, and *F. Sebening:* Modified Fontan Procedure with Right Atrial Tunnelling in Patient with Single Ventricle of Left Ventricular Type, Pulmonary Stenosis and 1-Transposition of Great Arteries (TGA) 75

Scheidt, W. von, and *E. Erdmann:* Arteriovenous Fistula of the Right Lower Lobe of the Lung as a late Complication of Cavopulmonary Anastomosis in Tricuspid Atresia 1B. – Case Report 75

Oelert, H., H. Jakob, M. Dahm, U. Höhne, C. Halhuber, and *I. Senning:* Double inlet Left Ventricular Main Chamber, Subaortic Small Left Sided Right Ventricle, and Interrupted Aortic Arch Type A: Which Operation when Indicated? 76

Warnke, H., J. Bartel, and *Chr. Blumenthal-Barby:* Aortico-left Ventricular Tunnel. 76

Hartung, H. W., F. Rolfs, H. H. Klein, and *E. R. de Vivie:* Iatrogenic Transposition of Vena Cava Inferior to the Left Atrium, a rare Complication in Surgical Repair of Atrial Septal Secundum Defect 76

Leitz, K. H., H. Oster, and *J. Keutel:* Treatment of Congenital Atresia of the Main Left Coronary Artery by Left Mammary Artery. 77

Rein, J., J. von der Emde, H. Segerer, K. Richter, and *H. Singer:* Aortopexy – Indication, Technique, Results. 77

Schüler, S., M. Theebken, U. Frei, T. Wagner, H. Warnecke, and *R. Hetzer:* The »Denervated Heart« under Exercise – Endocrine Regulation after Heart Transplantation 78

Wahlers, Th., A. Haverich, H. J. Schäfers, C. Beer, K. Frimpong, G. Hermann, H. Fieguth, and *H. G. Borst:* Risk Factors of Right Heart Failure (RHF) after Orthotopic Heart Transplantation (HTX). 78

Matheis, G., H. Warnecke, S. Schueler, M. Loebe, and *R. Hetzer:* Late Acute Rejection after Cardiac Transplantation 78

Fieguth, H. G., A. Haverich, H.-J. Schäfers, Th. Wahlers, K. Oldhafer, and *H. G. Borst:* Noninvasive Diagnosis of Cardiac Rejection 79

Loebe, M., S. Schüler, H. Warnecke, B. Zhang, and *R. Hetzer:* Infektionen nach Herztransplantation. 79

Kemkes, B. M., N. Schad, A. Maccio, Ch. Angermann, E. Erdmann, R. Rienmüller, H. Reichenspurner, G. Osterholzer, A. Anthuber, and *J. Gokel:* Two-D-Echocardiography (2DE), Radionuclidangiography (RNA) in Comparison to Angiography (CATH) and Magnetic

Resonance Imaging (MA) for Long-term Follow-up after Heart-Transplantation (HTx). A 5 Years' Experience. 80

Schüler, S., H. Warnecke, E. Wellnhofer, E. Fleck, and *R. Hetzer:* Ventricular Function and Coronary Morphology in Late Course after Heart Transplantation 80

Murday, H.: Organ Dysfunction During Extracorporeal Circulation: Diagnostic and Protective Measures 80

Popov-Cenic, S.: Basis of Coagulation Disturbances During Extracorporeal Circulation 80

Lauterbach, G., and *H. Schneider:* Quality Control of Laboratory Data in Extracorporeal Circulation 81

Philipp, A., and *D. Birnbaum:* Special Technique for Administration of Cardioplegia During Aortic Valve Replacement 81

Palzer, B.: Basci Aspects for Application of Bio-pumps during Left Heart Bypass. 81

Lauterjung, K. L., H. W. Capeller, and *H. Kortmann:* The Infrarenal Aortic Aneurysm: Early and Late Post-operative Complications. 81

Heger, W., and *J.-R. Allenberg:* Graft Occlusion in Unilateral Aorto-iliac Procedures 81

Braun, L.: Early and Late Results following Implantation of Aorto-biiliac resp. Aorto-bifemoral Dacron Grafts. 81

Kniemeyer, H. W., W. Sandmann, and *R. Jaeschock:* Anastomotic Aneurysms following Aorta Graft Replacement – Diagnosis and Treatment 82

Alemany, J., K. Teubner, H. Montag, and *R. Tannous:* Anastomotic Arterial Aneurysms of the Groin Aerea. Treatment, Early and Late Results 82

Korsten, F., H. Kniemeyer, R. Jaeschock, and *W. Sandmann:* Peripheral Anastomotic Aneurysms 82

Balzer, K., H.-H. Werner, C. Müller, H. Förster, and *G. Carstensen:* Results after Implantation of Gelatine-Covered Y-grafts 83

Zilla, P., R. Fasol, M. Kadletz, M. Deutsch, G. Wollenek, G. Laufer, A. Griesmacher, M. M. Mueller, and *E. Wolner:* Development of a New Two-stage Operation Technique for Complete Endothelialization of ePTFE Vascular Grafts with Autologous Endothelial Cells: Shear Stress Exposure and First Clinical Experience 83

Maass, D., H. Oelert, H. Jakob, W. Schmiedt, and *A. Senning:* Central Vein Compression and Stenosis: Treatment by Transluminal Implantation of Spiral-Endoprostheses 84

Fürst, H., D. Abendroth, and *L. Lauterjung:* The Thoracic Outlet Syndrome 84

Zurbruegg, H. R., F. Leupi, P. Schuepbach, and *U. Althaus:* Persistent Dissection of the Carotid Artery after Surgical Treatment of Aortic Dissection Type A with Special Reference to Neurological Symptoms and Prognosis 85

Kuttler, H., A. Hetzel, G.-M. v. Reutern, and *V. Schlosser:* Critical Asymptomatic Carotid Bifurcation Stenoses in Surgery of Coronary Heart Disease – Transcranial Doppler Sonography. 85

Kortmann, H., and *H. J. Krämling:* 5 Years Follow-up of Internal Carotid Artery Endarterectomy: Early and late Complications 85

Schweiger, H., P. Klein, St. Ruf, and *R. Meister:* »Avoidable« Early Failure of Tibial Bypass Grafts 86

Loebe, N., N. Messerschmidt, G. P. Noon, and *M. E. Debakey:* Früh- und Spätkomplikationen nach femoropoplitealem Bypass mit Dacron-Velour Prothesen. . . .86

Meyer, J.: Varicose Aneurysm as a Late Complication of a Femoro-popliteal Homograft Saphenous Vein 86

Deutsch, M., R. Fasol, F. Grabenwöger, J. Kaliman, W. Kumpan, G. Wollenek, and *P. Zilla:* Long Term Angiographic Follow-up after Complex Crural Reconstructions 87

Klövekorn, W. P.: Changes of Local Myocardial Oxygen Supply under Normal and Pathologic Conditions: Experimental Studies in the Beating Heart 87

Weyand, M., W. Konertz, and *A. Berhard:* Non invasive Quantification of Wall Motion Velocities by 2D-Doppler-Echocardiography 88

Zeplin, H. E., F. Dransmann, P. Verkenne, and *Th. Stegmann:* Amrinon in Postoperative Treatment after CABG – Preliminary Report. 88

Kreuzer, E., R. Hatz, J. Weingartner, and *D. Peters:* Unipolar Subendocardial ECG-Monitoring with Integral Measurement of ST Segment Elevation in Dog 88

Gams, E., W. Heimisch, S. Hagl, H. Schad, M. Höfter, M. Muscholl, N. Mendler, and *F. Sebening:* Significance of the Subvalvular Apparatus (SVA) for Left-Ventricular (LV) Function in Mitral Valve Replacement (MVR): A New Experimental Model 89

Mohl, W., P. Simon, C. Punzengruber, and *F. Neumann:* Changes in Myocardial Function in Cardiac Surgery 89

Doetsch, N., H.-R. Zerkowski, B. Meyer, and *J. Chr. Reidemeister:* Histidine Elimination following Incorporation of Histidine-buffered Cardioplegic Solutions 90

Gebhard, M. M., Ph. A. Schnabel, and *H. J. Bretschneider:* A Stone Heart Following Ca-free Cardioplegia is not necessarily a Calcium Paradox 90

Schnabel, Ph. A., Th. Pomykaj, A. Schmiedl, M. M. Gebhard, J. Richter, and *H. J. Bretschneider:* Structural Inhomogeneities of Myocardial Biopsies after Cardioplegia 90

Konerzt, W., B. Saka, and *A. Bernhard:* Orthotopic Heart Transplantation in Pigs after 24 Hours Hypothermic Storage in Eurocollins Solution 91

Hoefter, E., E. Fiehl, H. Reichenspurner, B. M. Kemdes, F. Krombach, G. König, G. Osterholzer, W. Ertel, J. M. Gokel, and *C. Hammer:* Hetero-Orthotopic Heart-Lung Transplantation in the Dog: A Model to Evaluate Morphology and Function of Free Lung Cells. 91

Konertz, W., R. Dierks, and *A. Bernhard:* Influence of Verapamil on Cardiac Recovery after 24 Hours Global Ischemia. 92

Walpoth, B., D. Weber, F. Barbalat, M. Schmidt, J. Cox, B. Faidutti, and *R. Megevand:* Assessment of Myocardial Biodegradation for Transplantation 92

Herse, B., Th. Hohlfeld, P. Drechsler, W. Isselhard, and *H. Dalichau:* Infusion of Oleic Acid into the Pulmonary Artery: A Useful Experimental Model of the »Shock Lung«?.....93

Hoffmann, H., M. Siebeck, M. Jochum, H. F. Welter, and *H. Fritz:* Exogenous High Dose Superoxide Dismutase Potentiates Respiratory Failure During Septicemia.....93

Moosdorf, R., H. H. Scheld, H. Müller, H. Fritz, U. Börner, and *W. A. Stertmann:* Laser-assisted Trachea Anastomoses in Dogs.....94

Nikol, S., C. Minale, and *B. J. Messmer:* Interposition of Coral Between Sternal Blades to Prevent Postoperative Dehiscence.....94

Beyersdorf, F., G. Mattheis, A. Hanselmann, and *G. Zimmer:* Reducing Reperfusion Injury After Acute Ischemia in the Hindlimb by Controlled Reperfusion 94

Special Issue II/87

Doerr, W., Heidelberg, FRG: Thoracic Aortic Aneurysms ..111

Harder, Th., V. Nicolas, A. Steufel, and *L. Orrelano,* Bonn, FRG: Radiological Diagnosis of the Thoracic Aortic Aneurysm 122

Erbel, R., S. Mohr-Kahaly, H. Rennollet, J. Brunier, M. Drexler, N. Wittlich, S. Iversen, H. Oelert, M. Thelen, and *J. Meyer,* Mainz, FRG: Diagnosis of Aortic Dissection: The Value of Transesophageal Echocardiography 126

Borst, H. G., J. Laas, G. Frank, and *A. Haverich,* Hannover, FRG: Surgical Decision Making in Acute Aortic Dissection Type A.....134

Wittenstein, G. J., Los Angeles, USA: Complications of Aortic Aneurysm Surgery: Prevention and Treatment.....136

Dahm, M., S. Iversen, F. X. Schmid, M. Drexler, R. Erbel, and *H. Oelert,* Mainz, FRG: Intraoperative Evaluation of Reconstruction of the Atrioventricular Valves by Transesophageal Echocardiography 140

Kadletz, M., R. Moser, P. Preiss, M. Deutsch, P. Zilla, and *R. Fasol,* Cape Town, South Africa: In Vitro Lining of Fibronectin coated PTEE Grafts with Cryopreserved Saphenous Vein Endothelial Cells 143

Schweiger, H., P. Klein, St. Ruf, and *R. Meister,* Erlangen-Nürnberg, FRG: Avoiding Early Failure of Tibial Prosthetic Bypass Grafts 148

Schmid, F. X., J. Jakob, M. Dahm, M. El-Gindi, H. C. Kallfelz, and *H. Oelert,* Mainz, FRG: Double inlet left ventricular main chamber, subaortic small left sided right ventricle and interrupted aortic arch type A. What operation is indicated when? 151

Moosdorf, R., H. H. Scheld, W. A. Stertmann, H. Fitz, U. Börner, H. Müller, and *F. W. Hehrlein,* Giessen, FRG: Laser-Assisted Trachea Anastomoses in Dogs 156

Fisseler-Eckhoff, A., E. Snyder, R. Achatzy, W. P. Kunze, and *K.-M. Müller,* Bochum, FRG: Stromal Composition in Bronchogenic Carcinomas – Morphometric Structure Analysis 160